

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Rec'd PCT/PTO

12 APR 2005

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 36285WOP00	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).	
International Application No. PCT/AU2003/001338	International Filing Date (day/month/year) 10 October 2003	Priority Date (day/month/year) 10 October 2002
International Patent Classification (IPC) or national classification and IPC Int. Cl. ⁷ B01D 65/02, 65/04		
Applicant U.S. FILTER WASTEWATER GROUP, INC. et al		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
- ☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheet(s).

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 20 April 2004	Date of completion of the report 21 May 2004
Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustrialia.gov.au Facsimile No. (02) 6285 3929	Authorized Officer E.J. MARTYN Telephone No. (02) 6283 2332

I. Basis of the report**1. With regard to the elements of the international application:***☒ the international application as originally filed.☐ the description, pages , as originally filed,

pages , filed with the demand,

pages , received on with the letter of

☐ the claims, pages , as originally filed,

pages , as amended (together with any statement) under Article 19,

pages , filed with the demand,

pages , received on with the letter of

☐ the drawings, pages , as originally filed,

pages , filed with the demand,

pages , received on with the letter of

☐ the sequence listing part of the description:

pages , as originally filed

pages , filed with the demand

pages , received on with the letter of

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).☐ the language of publication of the international application (under Rule 48.3(b)).☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).**3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:**☐ contained in the international application in written form.☐ filed together with the international application in computer readable form.☐ furnished subsequently to this Authority in written form.☐ furnished subsequently to this Authority in computer readable form.☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished**4. ☐ The amendments have resulted in the cancellation of:**☐ the description, pages☐ the claims, Nos.☐ the drawings, sheets/fig.**5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).****

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims 1 - 9	YES
	Claims	NO
Inventive step (IS)	Claims 1 - 9	YES
	Claims	NO
Industrial applicability (IA)	Claims 1 - 9	YES
	Claims	NO

2. Citations and explanations (Rule 70.7)

Claims 1 - 9

The invention of the claims is a filtration arrangement including one or more membrane modules positioned vertically within a feed tank, each membrane module having one or more membranes positioned therein. An aeration hood having an upper wall and one or more downwardly extending sidewalls is configured to at least partially shroud the membrane modules within the tank. The aeration hood includes a number of open-ended tubes, each extending downwardly from the upper wall and forming a respective opening therein. Each tube is adapted to have at least one of the modules mounted therein and extending through the respective openings in the upper wall so as to at least partially surround an outer periphery of an associated module or modules. One or more aeration openings are provided in each tube at a location spaced from a proximal end of the tube. The aeration hood sidewall or walls extend to below the location of the aeration openings in the tubes. Gas providing means feed gas into the hood.

No individual citation or obvious combination of citations disclose all of the features listed above.

The closest art are:

JP 2001104760 A

JP 10033955 A

JP 11028467 A

JP 2001009246 A

JP 2001190937 A

VI. Certain documents cited

1. Certain published documents (Rule 70.10)

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
P, X JP 2003047830 A	18 February 2003	6 August 2001	6 August 2001

2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)
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